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NOTICE OF ALLOWANCE AND FEE(S) DUE

021567

7590

12/18/2001

WELLS ST JOHN ROBERTS GREGORY AND MATKIN **SUITE 1300 601 W FIRST AVENUE** SPOKANE, WA 992013828

EXAMINER THOMAS, TONIAE M

ART UNIT

CLASS-SUBCLASS

2822

438-623000

DATE MAILED: 12/18/2001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/536,037	03/27/2000	Weimin Li	MI22-1398	4099

TITLE OF INVENTION: LOW K INTERLEVEL DIELECTRIC LAYER FABRICATION METHODS

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
21	nonprovisional	NO	\$1280	\$0	\$1280	03/18/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE

Assistant Commissioner for Patents

Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

indicated unless correct maintenance fee notifica	ed below or directed other itions.	wise in Block 1, by (a)) specifying a new co	orrespondence address;	and/or (b) indicating a sep-	arate "FEE ADDRESS" for	
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021567	7590 12/18/20	01		other accompanying	papers. Each additional pap	er, such as an assignment	
WELLS ST JOHN ROBERTS GREGORY AND MAT SUITE 1300 601 W FIRST AVENUE SPOKANE, WA 992013828			IATKIN	or formal drawing, must have its own certificate of mailing. Certificate of Mailing I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on the date indicated below.			
						(Depositor's name)	
						(Signature)	
						(Date)	
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21	nonprovisional	NO	\$1280	\$0	\$1280	03/18/2002	
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THOMAS	S, TONIAE M	2822	438-6230	00			
CFR 1.363). Use of PT but not required. Change of corresp Address form PTO/S	ndence address or indication FO form(s) and Customer N ondence address (or Chang B/122) attached. ication (or "Fee Address" li	lumber are recommende	the names of a or agents OR, single firm (h attorney or ag registered pate	on the patent front property to 3 registered pater alternatively, (2) the aving as a member agent) and the names on attorneys or agents.	name of a l name of a l name of up to 2 2		
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Please check the approp	oriate assignee category or c	ategories (will not be pr	rinted on the patent)	□ individual □	corporation or other private p	group entity 🚨 government	
4a. The following fee(s)) are enclosed:	4b	. Payment of Fee(s):				
☐ Issue Fee	☐ Issue Fee ☐ A check in the a			ount of the fee(s) is enclosed.			
Publication Fee			•	rd. Form PTO-2038 is			
☐ Advance Order - #	of Copies	— De	The Commissioner is eposit Account Numb	er(charge the required fee(s), or enclose an extra copy of this	form).	
The COMMISSIONER	OF PATENTS AND TRA	DEMARKS is requested	d to apply the Issue Fo	ee and Publication Fee	(if any) to the application ide	entified above.	
(Authorized Signature)	· <u></u>	(Date)					

TRANSMIT THIS FORM WITH FEE(S)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

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09/536,037	03/27/2000	Weimin Li	MI22-1398 4099		
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WELLS ST JOHN ROBERTS GREGORY AND MATKIN			THOMAS, TONIAE M		
SUITE 1300 601 W FIRST A	AVENUE		ART UNIT	PAPER NUMBER	
SPOKANE, WA 992013828			2822		
			DATE MAILED: 12/18/2001		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

· ·	Application No.	Applicant(s)	· · · · · ·
	09/536,037	LI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Toniae M Thomas	2822	
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to the RCE filed on 04 Structure 2. ☑ The allowed claim(s) is/are 26-33 and 52-64. 3. ☑ The drawings filed on 27 March 2000 are accepted by the 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of t	ears on the cover shee (OR REMAINS) CLOS or other appropriate of GHTS. This application and MPEP 1308. Sep 2001. Examiner. Her 35 U.S.C. § 119(a) be been received.	et with the correspondence addr ED in this application. If not includ communication will be mailed in due on is subject to withdrawal from issu-	ed course. THIS re at the initiative
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority us (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority us	pplication has been re	ceived.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS	THREE-MONTH PERIOD IS NOT and EXAMINER'S AMENDMENT or	EXTENDABLE.
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of the including changes required by the attached Examiner.	correction filed	which has been approved by the least or in the Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper 9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	with a transmittal letter sit of BIOLOGICAL	addressed to the Official Draftspers WATERIAL must be submitted.	on.
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No. 13 Examiner's Comment Regarding Requirement for Deposit of Biological Material U.S. Patent and Trademark Office	4 □ Int 6 □ Ex 8 □ Ex 9 □ Ot	tice of Informal Patent Application (erview Summary (PTO-413), Paper aminer's Amendment/Comment aminer's Statement of Reasons for her CAPL WHITEHEAD, JR. PERMSORY PATENT EXAMINER TECHNOLOGY CENTER 2800	No

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Application/Control Number: 09/536,037

Art Unit: 2822

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 04 Sep 2001 has been entered.

Allowable Subject Matter

2. Claims 26-33 and 52-64 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: prior art does not anticipate, teach, or suggest a method for forming a low k inter-level dielectric layer substantially as claimed. As discussed in the notice of allowance mailed 31 July 2001, The prior art of record does not anticipate, teach, or suggest, either separately or in combination, a method for forming a low k inter-level dielectric layer, wherein the method comprises the step of exposing the dielectric layer to a plasma comprising

nitrogen effective to reduce the dielectric constant to below what is was prior to the step of exposing.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toniae M Thomas whose telephone number is (703) 305-7646. The examiner can normally be reached on Monday through Thursday 8:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (703) 308-4940. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

TMT

December 17, 2001

TECHNOLOGY CENTER 2800

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